

Flight Delays and Cancellations

This report includes graph explaining 2015 US Flight data.

Insight 1

The first graph shows total number of flight delays per airline company.

https://public.tableau.com/views/TheDashboard_16499673149940/Sheet1?:language=en-US&:display_count=n&:origin=viz_share_link

summary

We can see that southwest Airlines company has highest number of total delays with a total of 527303 minutes of delay. On the other hand, Hawaiian airlines have the lowest number of delays across all airline companies with a total of 18446 minutes of delay.

Design

I chose a Tree map as it shows the difference in total delays between different airline companies as a difference on both the size and the color of each state mark on the chart. So, it is the best way to show the variations across airline companies.

Insight 2

This second graph explains what causes most delays in airports.

https://public.tableau.com/app/profile/khaled3864/viz/Book1_16494415804250/Sheet2?publish=yes

summary

We can see that on average, late aircraft delay is what causes the most flight delays with an average of 23.69 minutes. While security delays cause the least number of delays with an average of 0.08 minutes.

design

I chose the bar chart because it appeals to people's eyes as it shows the difference between the average delay time due to different reasons in a vertical way based on the height of each column in the chart.

Insight 3

This dashboard shows the number of total delays in each state and the number of cancellations in each state.

https://public.tableau.com/app/profile/khaled3864/viz/Thedashboard_16499673149940/Dashboard1

Summary

The upper chart shows the number of total delays in each state. We can see that California is the state with highest number of delays with a total of 270150 minutes of delay followed by Texas. On the other hand, the second chart shows the number of cancellations per state on the map. We can again see that both California and Texas have the highest number of flight cancellations across all states.

Design

I chose the map chart as it adds a geographical element that appeals to the people. Also, the dashboard has a filter, the drop-down menu on the upper right, to view each state independently if needed.